Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims

Claims 1-10 (cancelled)

- 11. (currently amended): A The method of claim 9, comprising:
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is a
 RNase inhibitor protein or an anti-nuclease antibody;
 - b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor organic-compound is oligovinylsulfonic acid (OVA), aurintricarboxylic acid (ATA), aflatoxin, 2-nitro-5-thiocyanobenzoic acid, iodoacetate, N-bromosuccinimide, p-chloromercuribenzoate, diethyl pyrocarbonate, ethanol, formamide, guanidinium thiocyanate (GdnSCN); dinitrofluorobenzene, decanavanate, polyvinylsufonic acid, hydrobenzoinphosphate, phenylphosphate, putrescine, haloacetate, dinitrofluorobenzene, phenylglyoxal, bromopyruvic, hydroxylamine-oxygeneupric ion, a vanadyl-complex, 8-amino-5-(4'-hydroxy-biphenyl-4-ylazo)-naphthalene-2-sulfonate, 6-hydroxy-5-(2-hydroxy-3,5-dinitro-phenylazo)-naphthalene-2-sulfonate, 3,3'-dimethylbiphenyl-4,4'-bis(2-aminonaphthylazo-6-sulfonate), 4,4'-dicarboxy-3,3'-bis(naphthylamido)-diphenylmethanone, 3,3'-dicarboxy-4,4'-bis(3-nitrophenylamido) diphenylmethane, or 3,3'-dicarboxy-4,4'-bis(3-nitrophenylamido) diphenylmethane or NCI-224131:
 - c) obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

Claims 12-13 (cancelled)

- 14. (currently amended): A The method of claim 13, comprising:
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is a
 RNase inhibitor protein:
 - b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor nitrogenous base is purine, pyrimidine, cytidine-N3-oxide 2'-phosphate, 2'CMP, ppAp, Ap3A, Ap4A, Ap5A, ATP, 5'AMP, 5'ADP, 3'UMP, 2'UMP, 2'CMP, pAp (5'P-A-3'P), dUppAp, dUppA2'p, pdUppAp, pTp, pTppAp, TpdA, TppdA, 4-thiouridine 3'p, 5-nitro-uracil, 5-aminoethyluracil or (Bromoacetamido)nucleoside;
 - obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

Claims 15-26 (cancelled)

- 27. (Currently amended): A The method of claim 26, comprising:
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is an anti-RNase antibody or a RNase inhibitor protein;
 - b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor ehaotrope is SCN', Li*, ClO₄*, or guanidinium;
 - c) obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

(currently amended): A The method of claim 7, comprising:

- a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is an anti-RNase antibody or a RNase inhibitor protein;
- b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor oligonucleotide;
 an RNA or DNA oligonucleotide;
- obtaining a composition; and
- admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture:

- 29. (currently amended): A The method of claim 7, comprising:
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is an anti-RNase antibody or a RNase inhibitor protein;
 - b) obtaining at least a second nuclease inhibitor wherein the second nuclease
 inhibitor oligonucleotide is an aptamer, a competitive inhibitor comprising a
 ribonucleoside, a deoxyribonucleoside, a dideoxyribonucleoside, a thiol containing RNA, or a DNP-poly(A);
 - c) obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

Claims 30-31 (cancelled)

(Currently amended): The method of claim 11 34, wherein the proteinaceous-compound
is-an RNase inhibitor protein is obtained from a human, a chimpanzee, a rat, a mouse, a
pig, yeast, or by recombinant means, or derivatives therein.

Claims 33-35 (cancelled)

- (currently amended): The method of claim <u>86</u> 35, wherein the antibody is a soluble anti-nuclease antibody.
- (currently amended): The method of claim 86 35, wherein the antibody is an anti-RNase antibody.
- (original): The method of claim 37, wherein the anti-RNase antibody is an anti-RNase T1 antibody or an anti-RNase 1 antibody.

39-44 (canceled)

- (currently amended): <u>A</u> The method of claim 7, wherein the small molecule comprises an comprising:
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is an anti-nuclease antibody;
 - b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor comprises a non-proteinaceous polycyclic aromatic structure;
 - c) obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

46. (original): The method of claim 45, wherein the aromatic structure is:

47. (canceled).

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48. (currently amended): The method of claim 45 47, wherein the polycyclic aromatic structure is:

or

49. (currently amended): The method of claim 45, wherein the <u>second nuclease inhibitor</u> small molecule comprises the following structure:

,

$$\begin{array}{c} \text{NH}_2 \\ \text{SO}_3 \text{Na} \end{array} , \text{ or } \\ \text{HO} \\ \begin{array}{c} \text{HO} \\ \text{HN} \\ \text{OH} \\ \text{OH$$

50.-56. (canceled)

57. (currently amended): The method of claim 45, wherein the second nuclease inhibitor small-molecule comprises a structure selected from the group consisting of NCI-65828. NCI 65845, benzopurpurin B, NCI-65841, NCI 79596, NCI-9617, NCI-16224, suramin, direct red 1, NCI-7815, NCI-45618, NCI-47740, prBZBP, NCI-65568, NCI-79741, NCI-65820, NCI-65553, NCI-58047, NCI-65847, xylidene ponceau 2R, eriochrome black T. amaranth, new coccine, acid red 37, acid violet 7, NCI-45608, NCI-75661, NCI-73416, NCI-724225, orange G, NCI 47755, sunset vellow, NCI-47735, NCI-37176, violamine R. NCI-65844, direct red 13, NCI-45601, NCI 75916, NCI-65546, NCI-65855, NCI-75963, NCI-45612, NCI-8674, NCI-75778, NCI-34933, NCI-1698, NCI-7814, NCI-45550, NCI-77521, cefsulodin, NCI-174066, NCI-12455, NCI-45541, NCI-79744, NCI-42067, NCI-45571, NCI-45538, NCI-45540, NCI-9360, NCI-12857, NCI-D726712, NCI-45542, NCI-7557, S321443, NCI-224131, NCI-45557, NCI-1741, NCI-1743, NCI-227726, NCI-16163, NCI-16169, NCI-88947, NCI-17061, NCI-37169, beryllon II,, CB-0181431, CB-473872, JLJ-1, JLJ-2, JLJ-3, CB-467929, CB-534510, CB-540408, CB-180582, CB-180553, CB-186847, CB-477474, CB-152591, NCI-37136, NCI-202516, CB-039263, CB-181145, CB-181429, CB-205125, and CB-224197.

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- (currently amended): The method of claim 57, wherein the <u>second nuclease inhibitor</u> small molecule is NCI-65828.
- (currently amended): The method of claim 58, wherein the <u>second nuclease inhibitor</u> small-molecule is a derivative of NCI-65828.
- 60. (previously presented): The method of claim 59, wherein the derivative of NCI-65828 comprises at least one modification selected from the group consisting of: a reduction of the azo to hydrazido, replacement of the azo by an amide, an attachment of a hydroxyl group to position 6 of the naphthalene ring, an attachment of an electron-withdrawing group to position 6 of the naphthalene ring, replacement of a carbon atom in an aromatic ring with a nitrogen or an oxygen, and a replacement of the hydroxyl group on the biphenyl component with a sulfonate.
- 61. (original): The method of claim 59, wherein the derivative of NCI-65828 comprises at least one modification selected from the group consisting of: an addition of a hydrogenbonding group and substitution of a hydroxyl group with an anionic group to the biphenyl component.
- (original): The method of claim 61, wherein the hydrogen-bonding group is selected from the group consisting of a hydroxyl, an amino, and an amide.
- 63. (original): The method of claim 61, wherein the anion is selected from the group consisting of a carboxylate, a sulfate, a sulfonate, a phosphate, and a phosphonate.
- (currently amended): The method of claim 57, wherein the <u>second nuclease inhibitor</u> small molecule is CB-473872.
- (currently amended): The method of claim 64, wherein the <u>second nuclease inhibitor</u> small-molecule is a derivative of CB-473872.

- 66. (original): The method of claim 65, wherein the derivative of CB-473872 comprises an addition of at least one of a hydrogen-bonding group selected from the consisting of: a hydroxyl, an amino, a methyldiamino, a hydroxyethyl, an ethyl-N-formamido, a carboxyamido, a carboxy, a 2-oxo-N-piperidinyl, and a p-benzoyl.
- (original): The method of claim 65, wherein the derivative of CB-473872 comprises Structure II or Structure III, and wherein:

R₀ is -H, -NH₂, or -OH;

R₃ is -H, -CH₂OH, or CONH₂;

R4 is -H, -COOH, or 2-oxo-N-piperidinyl;

R₅ is -H or p-benzoyl group.

 (original): The method of claim 65, wherein the derivative of CB-473872 comprises a replacement of a carbon atom in an aromatic ring with a nitrogen or an oxygen.

69.-73. (canceled)

- (currently amended):
 <u>A The method comprising of claim 45, wherein the small molecule</u>
 <u>a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is benzopurpurin B: and
 </u>
 - b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor is an anti-nuclease antibody or a RNase inhibitor protein organic compound, an inorganic compound, or a salt;
 - c) obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture:

wherein nucleases that may be present in the admixture are inhibited.

75.-81. (canceled)

- 82. (currently amended): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 93 + and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- (currently amended): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 93 1.
- 84. (currently amended): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 93 1 and components for RNA isolation, an in vitro translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or in vitro transcription.
- 85. (canceled).
- (currently amended): <u>A The method comprising of claim 85, wherein the nitrogenous base is purine, pyrimidine;</u>
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is cytidine-N3-oxide 2'-phosphate, 2'CMP, ppAp, Ap3A, Ap4A, Ap5A, ATP, 5'AMP, 5'ADP, 3'UMP, 2'UMP, 2'CMP, pAp (5'P-A-3'P), dUppAp, dUppAp, pTp, pTppAp, TpdA, TppdA, 4-thiouridine 3'p, 5-nitro-uracil, 5-aminoethyl-uracil or (Bromoacetamido)nucleoside:
 - b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor comprises an anti-nuclease antibody;
 - c) obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

- (canceled): The method of claim 1, wherein the first nuclease inhibitor is an inorganic compound.
- 88. (canceled): The method of claim 87, wherein the inorganic compound is a metallic ion or a complex comprising Mg⁺², Mn⁺², Zn⁺², Fe⁺², Ca⁺², or Cu⁺².
- 89. (canceled): The method of claim 1, wherein the first nuclease inhibitor is a salt.
- 90. (canceled): The method of claim 89, wherein the salt is a monovalent or multivalent salt.
- 91. (currently amended): A The method of claim 89, comprising:
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is a
 a salt, wherein the salt is NaCitrate, NaCl, (NH4)2SO4, or KCl;
 - obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor comprises an anti-RNase antibody or an RNase inhibitor protein;
 - obtaining a composition; and
 - admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

- (canceled): The method of claim 1, wherein the first nuclease inhibitor comprises an
 aromatic structure.
- 93. (currently amended): A The method comprising of claim 92,
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor
 <u>comprises</u> the aromatic structure is a <u>non-proteinaceous</u> polycyclic aromatic structure:

- b) obtaining at least a second nuclease inhibitor wherein the second nuclease inhibitor is a RNase inhibitor protein;
- c) obtaining a composition; and
- d) admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

94. (previously presented): The method of claim 93, wherein the aromatic structure is:

95. (previously presented): The method of claim 93, wherein the aromatic structure is:

or

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(previously presented): The method of claim 93, wherein the aromatic structure is:

97. (currently amended): The method of claim 93, wherein the aromatic structure is selected from the group consisting of NCI-65828, NCI 65845, benzopurpurin B, NCI-65841, NCI 79596, NCI-9617, NCI-16224, suramin, direct red 1, NCI-7815, NCI-45618, NCI-47740, prBZBP, NCI-65568, NCI-79741, NCI-65820, NCI-65553, NCI-58047, NCI-65847, xylidene ponceau 2R, eriochrome black T, amaranth, new coccine, acid red 37, acid violet 7, NCI-45608, NCI-75661, NCI-73416, NCI-724225, orange G, NCI 47755, sunset yellow, NCI-47735, NCI-37176, violamine R, NCI-65844, direct red 13, NCI-45601, NCI 75916, NCI-65546, NCI-65855, NCI-75963, NCI-45612, NCI-8674, NCI-75778.

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NCI-34933, NCI-1698, NCI-7814, NCI-45550, NCI-77521, cefsulodin, NCI-174066, NCI-12455, NCI-45541, NCI-79744, NCI-42067, NCI-45571, NCI-45538, NCI-45540, NCI-9360, NCI-12857, NCI-D726712, NCI-45542, NCI-7557, S321443, NCI-224131, NCI-45557, NCI-1741, NCI-1743, NCI-227726, NCI-16163, NCI-16169, NCI-88947, NCI-17061, NCI-37169, beryllon II., CB-0181431, CB-473872, JLJ-1, JLJ-2, JLJ-3, CB-467929, CB-534510, CB-540408, CB-180582, CB-180553, CB-186847, CB-477474, CB-152591, NCI-37136, NCI-202516, CB-039263, CB-181145, CB-181429, CB-205125, and CB-224197.

- (previously presented): The method of claim 97, wherein the aromatic structure is NCI-65828.
- (previously presented): The method of claim 98, wherein the aromatic structure is a derivative of NCI-65828.
- 100. (previously presented): The method of claim 99, wherein the derivative of NCI-65828 comprises at least one modification selected from the group consisting of: a reduction of the azo to hydrazido, replacement of the azo by an amide, an attachment of a hydroxyl group to position 6 of the naphthalene ring, an attachment of an electron-withdrawing group to position 6 of the naphthalene ring, replacement of a carbon atom in an aromatic ring with a nitrogen or an oxygen, and a replacement of the hydroxyl group on the biphenyl component with a sulfonate.
- 101. (previously presented): The method of claim 99, wherein the derivative of NCI-65828 comprises at least one modification selected from the group consisting of: an addition of a hydrogen-bonding group and substitution of a hydroxyl group with an anionic group to the biphenyl component.
- 102. (previously presented): The method of claim 101, wherein the hydrogen-bonding group is selected from the group consisting of a hydroxyl, an amino, and an amide.

- 103. (previously presented): The method of claim 101, wherein the anion is selected from the group consisting of a carboxylate, a sulfate, a sulfonate, a phosphate, and a phosphonate.
- 104. (previously presented): The method of claim 97, wherein the aromatic structure is CB-473872
- 105. (previously presented): The method of claim 104, wherein the aromatic structure is a derivative of CB-473872.
- 106. (previously presented): The method of claim 105, wherein the derivative of CB-473872 comprises an addition of at least one of a hydrogen-bonding group selected from the consisting of: a hydroxyl, an amino, a methyldiamino, a hydroxyethyl, an ethyl-N-formamido, a carboxyamido, a carboxy, a 2-oxo-N-piperidinyl, and a p-benzoyl.
- 107. (previously presented): The method of claim 105, wherein the derivative of CB-473872 comprises Structure II or Structure III, and wherein:

R5 is -H or p-benzoyl group.

- 108. (previously presented): The method of claim 105, wherein the derivative of CB-473872 comprises a replacement of a carbon atom in an aromatic ring with a nitrogen or an oxygen.
- 109. (previously presented): A method comprising:
 - a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is an RNA or DNA oligonucleotide;
 - b) obtaining at least a second nuclease inhibitor;

- c) obtaining a composition; and
- admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

110. (currently amended): A method comprising:

- a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is an RNA or DNA oligonucleotide, an aptamer, or a competitive inhibitor comprising a ribonucleoside, a deoxyribonucleoside, a dideoxyribonucleoside, a thiol-containing RNA, or a DNP-poly(A).
- b) obtaining at least a second nuclease inhibitor;
- c) obtaining a composition; and
- admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

111. (previously presented): A method comprising:

- a) obtaining at least a first nuclease inhibitor, wherein the first nuclease inhibitor is an affinity resin:
- b) obtaining at least a second nuclease inhibitor;
- c) obtaining a composition; and
- admixing the first nuclease inhibitor, the second nuclease inhibitor and the composition to form an admixture;

wherein nucleases that may be present in the admixture are inhibited.

112. (previously presented): The method of claim 111, wherein the affinity resin is sulfopropyl sepharose or SP sulfopropyl cation exchange resin.

- 113. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 11 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- 114. (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 11.
- 115. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 11 and components for RNA isolation, an *in vitro* translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or *in vitro* transcription.
- 116. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 14 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- 117. (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 14.
- 118. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 14 and components for RNA isolation, an *in vitro* translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or *in vitro* transcription.
- 119. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of

- claim 27 and placing the composition in an *in vitro* translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- 120. (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 27.
- 121. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 27 and components for RNA isolation, an *in vitro* translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or *in vitro* transcription.
- 122. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 28 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- 123. (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 28.
- 124. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 28 and components for RNA isolation, an in vitro translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or in vitro transcription.
- 125. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 29 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.

- 126. (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 29.
- 127. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 29 and components for RNA isolation, an *in vitro* translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or *in vitro* transcription.
- 128. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 45 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- 129. (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 45.
- 130. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 45 and components for RNA isolation, an *in vitro* translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or *in vitro* transcription.
- 131. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 74 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 74.

- 133. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 74 and components for RNA isolation, an *in vitro* translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or *in vitro* transcription.
- 134. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 86 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 86.
- 136. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 86 and components for RNA isolation, an in vitro translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or in vitro transcription.
- 137. (new): A method of performing an in vitro translation, transcription, reverse transcription or coupled transcription/translation reaction comprising obtaining a composition, the composition comprising the first nuclease inhibitor and a second nuclease inhibitor of claim 91 and placing the composition in an in vitro translation reaction, transcription reaction, reverse transcription reaction or a coupled transcription/translation reaction.
- 138. (new): A solution comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 91.

139. (new): A kit comprising the first nuclease inhibitor and the second nuclease inhibitor of claim 91 and components for RNA isolation, an in vitro translation reaction, a reverse transcriptase reaction, an RNA amplification reaction, DNA removal, or in vitro transcription.

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